

# PATENT ABSTRACTS OF JAPAN

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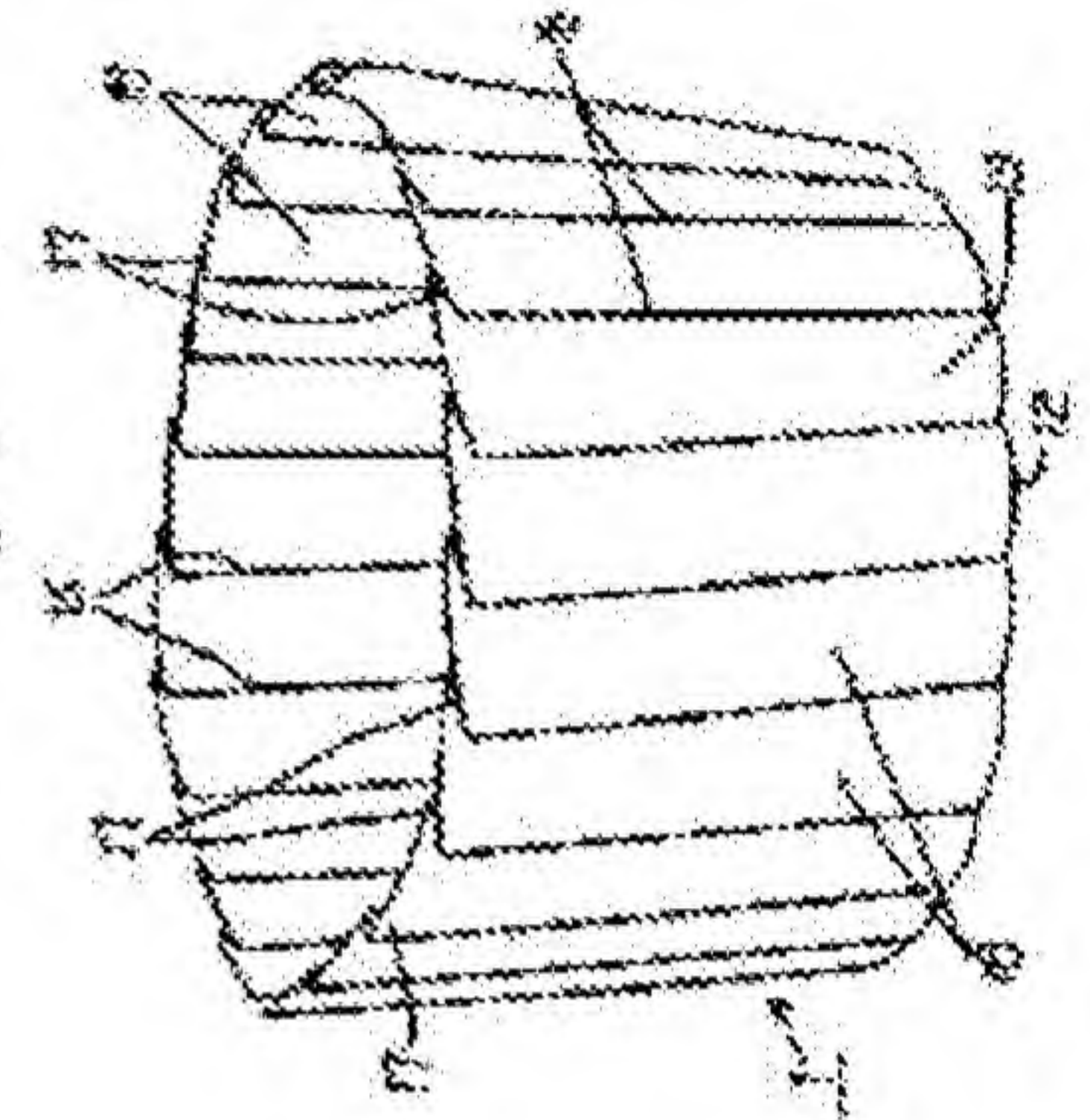
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## (54) PAPER CUP AND ITS MANUFACTURE

### (57)Abstract:

**PURPOSE:** To obtain an integrally-molded rigid paper cup by a method wherein a disc form paper piece is cut out from a sheet of thin paper, inward-folds and outward-folds are shaped between a circular-fold and the circumference of the disc, and the inner face of the folded part is adhered to the inner face of a side wall component.

**CONSTITUTION:** A disc shape paper piece 11 is folded in folding devices 31, 32 made of hardened rubber with numerous molds which become gradually deeper so that a side wall component 18 and a folded part 17 are approximately perpendicular to an inward-fold 15, outward-fold 16 and a circular-fold 12, and the folds are shaped with a fold making device 3. Then the paper cup is held between the inner face of a female former and the outer face of a male former so that the folded portion 17 is attached to the inside of the side wall component 18 to be made into a cup shape. By applying adhesive agent to the inner face of a paper cup material 10 with a pasting device 5 in advance, the inner face of the folded portion 17 is adhered to the inner face of the side wall component 18 when the formers make folds and shape the cup. This prevents the cup from deforming even if a cake dough or liquid is poured into it.



## LEGAL STATUS

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